

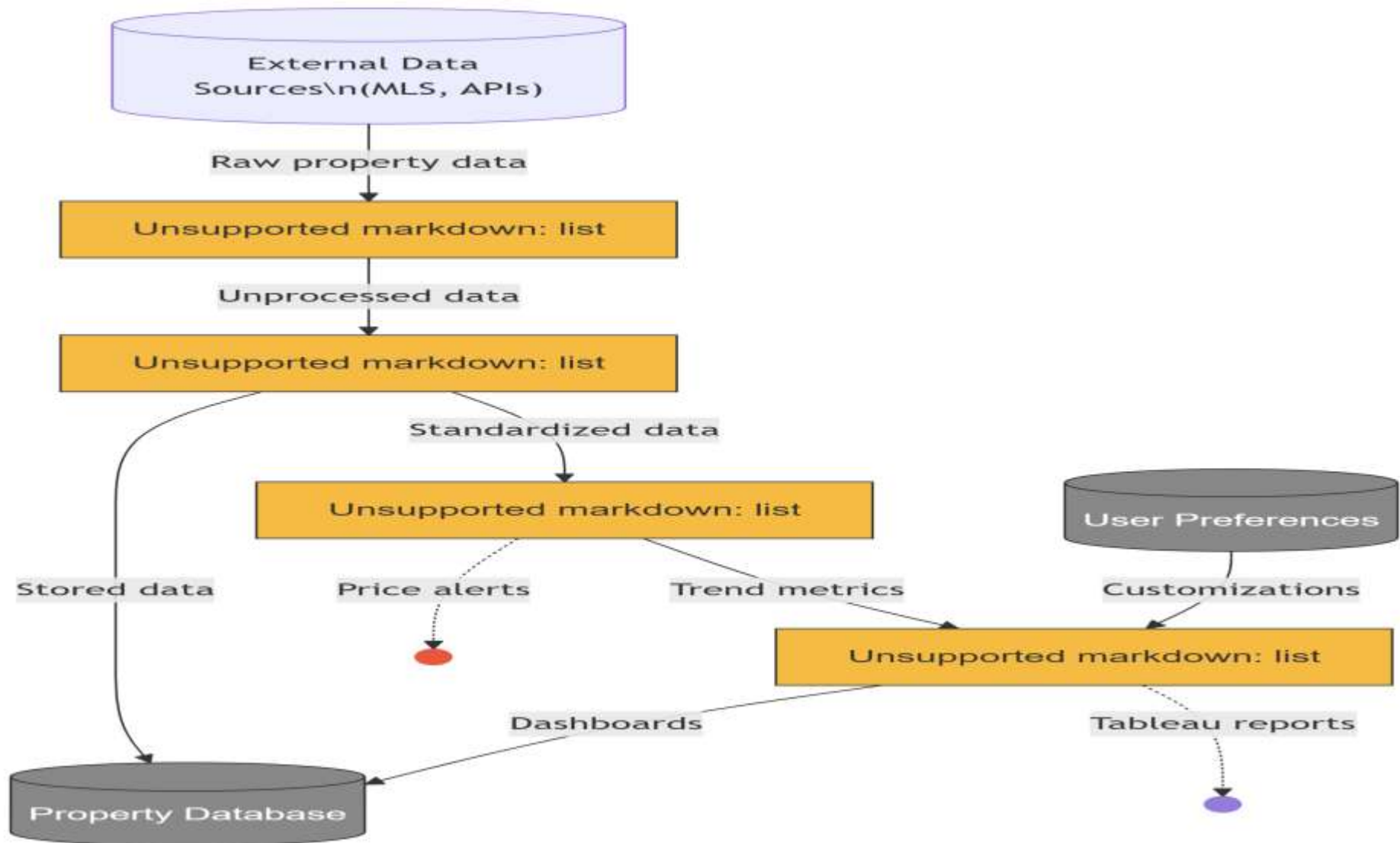
**Project Design Phase-II**  
**Data Flow Diagram & User Stories**

Date	2 JULY 2025
Team ID	LTVIP2025TMID52391
Project Name	Visualizing Housing Market Trends: An Analysis of Sale Prices and Features using Tableau
Maximum Marks	4 Marks

**Data Flow Diagrams:**

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

Example: [\(Simplified\)](#)



Example: DFD Level 0 (Industry Standard)



**User Input:**

- Home buyers submit search criteria (budget, location).
- Sellers provide property details (sqft, amenities).

2. **Data Ingestion:**

- System fetches historical data from government APIs.

3. **Processing:**

- Analyzes trends, calculates valuations.

4. **Output:**

- Buyers receive interactive dashboards. Sellers get automated valuation reports.

## User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
First-time Home Buyer	Property Search	USN-1	As a first-time buyer, I want to filter properties by price range	System displays only properties within my specified budget range	High	Sprint-1
	Property Search	USN-2	As a first-time buyer, I want to see properties with first-time buyer incentives	System highlights properties with special programs for first-time buyers	Medium	Sprint-2
	Market Trends	USN-3	As a first-time buyer, I want to view price trends in my target neighborhoods	System displays historical price charts for selected areas	High	Sprint-1
Luxury Home Buyer	Property Search	USN-4	As a luxury buyer, I want to filter by premium amenities (pool, waterfront, etc.)	System shows only properties matching my luxury criteria	High	Sprint-1
	Market Analysis	USN-5	As a luxury buyer, I want to compare price per sqft across affluent neighborhoods	System provides comparative analysis of high-end areas	High	Sprint-2
Home Seller	Pricing Tool	USN-6	As a seller, I want to estimate my home's value based on recent sales	System provides valuation estimate with comparable properties	High	Sprint-1
	Marketing Insights	USN-7	As a seller, I want to see optimal listing times based on market trends	System shows historical patterns of when similar homes sell fastest	Medium	Sprint-3
Real Estate Agent	Client Reporting	USN-8	As an agent, I want to generate custom market reports for clients	System produces PDF reports with selected market data and visualizations	High	Sprint-2

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
	Lead Generation	USN-9	As an agent, I want to identify potential sellers in appreciating neighborhoods	System flags areas with rising prices where homes have been owned long-term	Medium	Sprint-3
Property Developer	Market Research	USN-10	As a developer, I want to analyze demand by property type and location	System shows heatmaps of demand for different home types across regions	High	Sprint-1
	Investment Analysis	USN-11	As a developer, I want to project ROI for different development scenarios	System models potential returns based on current market conditions	High	Sprint-2